

Final Project: Encryption

1. **My encryption system** (15 points)
 - (a) Substitution described clearly
 - (b) Transposition described clearly, including a key word and its use
 - (c) Named encryption system
 - (d) Clear encryption instructions provided that is understandable by someone who is not in Math F113X
2. **Encrypted messages** (25 points)
 - (a) The plaintext, shift, and keyword used are clear
 - (b) Plaintext was correctly encrypted using the shift cipher
 - (c) Plaintext was correctly encrypted using a transposition cipher, with supporting work
 - (d) Plaintext was correctly encrypted using a Vigenère cipher, with supporting work
 - (e) Plaintext was correctly encrypted using Your Encryption Method, with supporting work
3. **Decryption check** (10 points)
 - (a) A clear step-by-step guide for decrypting messages was provided
 - (b) The guide is understandable by someone who is not in Math F113X
4. **How did your friend do?** (20 points)
 - (a) Clear explanation of whether or not your friend successfully decrypted your plaintext using the step-by-step decryption guide.
 - (b) Stated how long it took your friend to decrypt your messages
 - (c) Provided assessment of the clarity of the step-by-step decryption guide and described how it could be improved.
5. **Answer to “How hard do you think it would be for someone to decrypt these messages...”** (20 pts)
 - (a) Analyzed Your Encryption System
 - (b) Discussed least one strength of Your Encryption System that would make it difficult to hack
 - (c) Discussed of at least one possible weakness of Your Encryption System that may make it vulnerable to hacking
 - (d) Overall assessment of the security of Your Encryption System
6. **Grammar, mechanics, and following directions** (10 points)
 - Used sufficient words and **complete sentences** in your discussions
 - Used correct grammar and mechanics in your writing
 - Used words and headings to make it clear what you are answering where
 - Computations are presented clearly and legibly
 - Followed the directions